

CLAIMS

What is claimed is:

1. A mixing bag assembly comprising:

a body bounding a compartment, the body being comprised of a flexible sheet;

a mixing dish secured to the body, the mixing dish having a floor in communication with the compartment of the body; and

a magnetic stir bar disposed on the floor of the mixing dish.
2. A mixing bag assembly as recited in claim 1, wherein the body comprises a two-dimensional pillow style bag or a three dimensional bag.
3. A mixing bag assembly as recited in claim 1, wherein the body comprises at least three polymeric panels seamed together.
4. A mixing bag assembly as recited in claim 1, wherein the mixing dish further comprises an annular side wall upstanding from the floor, the side wall terminating at a perimeter edge, the perimeter edge being secured to the body.

5. A mixing bag assembly as recited in claim 4, further comprising:

the side wall and the floor of the mixing dish bound a cavity, the magnetic stir bar being disposed within the cavity; and

a retention cover mounted to the mixing dish so as to further bound the stir bar within the cavity, the retention cover having a plurality of openings extending therethrough.
6. A mixing bag assembly as recited in claim 5, wherein the retention cover is removably mounted to the side wall of the mixing dish.
7. A mixing bag assembly as recited in claim 1, wherein the mixing dish is more rigid than the body.
8. A mixing bag assembly as recited in claim 1, wherein the mixing dish is substantially rigid.
9. A mixing bag assembly as recited in claim 1, wherein the mixing dish comprises a substantially flat plate secured to the body.
10. A mixing bag assembly as recited in claim 1, further comprising at least one fluid port mounted on the body so as to communicate with the compartment of the body.

11. A mixing bag assembly as recited in claim 1, wherein the compartment of the body has a volume of at least 50 liters.

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12. A container system comprising:

a substantially rigid container having a floor and an upper side wall upstanding therefrom, the upper side wall and floor bounding a first chamber;

a magnetic mixer disposed below the floor of the container; and

a mixing bag assembly at least partially disposed within the first chamber of the container, the mixing bag assembly comprising:

a collapsible body bounding a compartment, the body having a first end and an opposing second end, at least a portion of the second end of the body resting on or adjacent to the floor of the container,

a mixing dish being more rigid than the collapsible body, the mixing dish being disposed at the second end of the collapsible body; and

a magnetic stir bar disposed on the mixing dish.

13. A container system as recited in claim 12, wherein the floor is integrally formed with the upper side wall of the container.

14. A container system as recited in claim 12, wherein at least a portion of the mixing dish is resting on the floor of the container.

15. A container system as recited in claim 12, wherein the floor has an opening extending therethrough, at least a portion of the mixing dish extending through the opening on the floor.

16. A container system as recited in claim 12, wherein mixing dish is disposed directly on or adjacent to the magnetic mixer.

17. A container system as recited in claim 12, wherein the container further comprising a lower side wall downwardly extending from the floor, the lower side wall bounding a second chamber, the magnetic mixer being at least partially disposed within the second chamber.

18. A container system as recited in claim 17, wherein the lower side wall of the container is integrally formed with the upper side wall and the floor.

19. A container system as recited in claim 17, further comprising an access port formed through the lower side wall so as to enable second chamber.

20. A container system as recited in claim 17, further comprising a dolly having a frame with wheels mounted thereon, the container and magnetic mixer being supported on the frame of the dolly.

21. A container system as recited in claim 12, wherein the upper side wall of the container terminates an edge bounding a top opening, a lid being removably mounted on the upper side wall so as to cover the top opening.

22. A container system as recited in claim 12, wherein the body of the mixing bag comprises a two-dimensional pillow style bag or a three dimensional bag.

23. A container system as recited in claim 12, wherein the body of the mixing bag is comprised of a laminated or extruded polymer sheet comprised to two or more layers of different material.

24. A container system as recited in claim 12, wherein the mixing dish comprises an annular side wall extending between a floor and a perimeter edge, the perimeter edge being secured to the body.

25. A container system as recited in claim 24, further comprising:

the side wall and the floor of the mixing dish bound a cavity, the magnetic stir bar being disposed within the cavity; and

a retention cover mounted to the mixing dish so as to further bound the stir bar within the cavity, the retention cover having a plurality of openings extending therethrough.

26. A container system as recited in claim 25, wherein the retention cover is removably mounted to the side wall of the mixing dish.

27. A container system as recited in claim 25, further comprising at least one fluid port mounted on the first end of the body of the mixing bag so as to communicate with the compartment of the body.

28. A method comprising:

inserting a disposable mixing bag assembly within a substantially rigid container, a magnetic stir bar being disposed within a sealed compartment of the mixing bag assembly;

delivering a solution or at least two separate components into the compartment of the mixing bag assembly, at least one of the at least two separate components being a liquid; and

activating a magnetic mixer disposed below the mixing bag assembly within the container so as to cause rotation of the magnetic stir bar within the mixing bag assembly, the magnetic stir bar stirring the solution or the at least two separate components.

29. A method as recited in claim 28, further comprising dispensing from the mixing bag assembly the solution or the at least two components that are stirred within mixing bag assembly.

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